

INTERCONTINENTAL TERMINALS COMPANY - TANK FIRE

Preliminary Data Summary

Deer Park, TX

April 8, 2019

Project #111356

1.0 Introduction

On March 17, 2019 Intercontinental Terminals Company (ITC) requested that CTEH® conduct air monitoring after a tank fire at the Deer Park, TX terminal. CTEH® arrived on-site on March 17, 2019 and began air monitoring and air sampling operations. CTEH® is currently conducting air monitoring in the impacted tank farm, within the Houston Ship Channel, in several industrial areas near the incident site, in community areas which currently have restricted access, and in the surrounding residential areas.

The present summary discusses real-time air monitoring data collected within those residential areas in the community from April 7, 2019 00:00 to April 8, 2019 00:00. Residential areas are defined as community locations outside of the industrial park, restricted access, and USCG divisions in the zone map included in **Attachment A**. During this reporting period, CTEH® performed real-time air monitoring in residential areas to the east of the ITC Tank Fire in Baytown, to the north in Channelview, to the west in Jacinto City and Galena Park, and to the south in Pasadena, Deer Park, and La Porte.

2.0 Air Monitoring and Sampling Methods

CTEH® developed and implemented an Air Sampling and Analysis Plan (SAP) to document and quantify the release of fugitive emissions, if any, from the incident at ground level. The SAP has been approved by local, state, and federal representatives of the on-site Unified Command (UC). In accordance with this UC-approved plan, benzene detections of 1 ppm or greater in the community are to be communicated to the Federal On-Scene Coordinator. Because benzene is a VOC, initial monitoring for VOCs can be used to determine if benzene-specific monitoring is required.

All instrumentation was calibrated at least once per day or per manufacturer's recommendations. Target analytes were measured as listed in **Table 1**, below. Roaming air monitoring was performed in community residential areas with hand-held instruments. All hand-held air monitoring was conducted in the breathing zone.

CTEH® has also collected analytical air samples for volatile organic compounds (VOCs) at 34 locations in the surrounding area at the time of this report. These samples have, and will continue to be, sent to a 3rd-party laboratory for rush chemical analysis. These data will be summarized in a separate report.

3.0 Air Monitoring Results

Attachment A provides maps of the locations of hand-held air monitoring and analytical air sampling in community residential areas. **Table 1** summarizes the results for community hand-held air monitoring.



Table 1: Community Hand-Held Real-Time Air Monitoring Results*

Analyte	Instrument	No. Readings	No. Detections	Range ¹
Benzene	Gastec #121L	47	0	< 0.05 ppm
	UltraRAE	57	0	< 0.025 ppm
	UltraRAE (w/Uniphos)	3	0	< 0.05 ppm
LEL	MultiRAE	14	0	< 1 %
Oxygen	MultiRAE	3	3	20.9%
VOCs	MultiRAE	1128	1	0.1 ppm

^{*}In accordance with the UC-approved Air Sampling and Analysis Plan, benzene detections of 1 ppm or greater in the community are to be communicated to the Federal On-Scene Coordinator.

¹Maximum detections preceded by the "<" symbol are considered non-detections below the limit of detection (LoD) value to the right.

Between April 7, 2019 00:00 to April 8, 2019 00:00, CTEH® observed and communicated detections of benzene in locations outside of community residential areas, defined on the zone map (**Attachment A**). These include detections near the ITC Tank Fire site (Impacted Tank Farm), in the industrial areas surrounding the ITC Tank Fire site (USCG Division E), within the Houston Ship Channel (USCG Divisions A-D), and in the industrial areas north and south of the Houston Ship Channel in Channelview (Industrial Area). CTEH® has been and continues to actively monitor in the ship channel and industrial areas north and south of the ship channel. These data are being provided to on-site regulatory agencies in real time.

During this reporting period, CTEH® performed real-time air monitoring in residential areas to the east of the ITC Tank Fire in Baytown, to the north in Channelview, to the west in Jacinto City and Galena Park, and to the south in Pasadena, Deer Park, and La Porte.

During this reporting period, CTEH® personnel observed one detection of VOCs of 0.1 ppm. This detection was below the action level for VOCs approved by UC. No detections of benzene were observed in the community during this reporting period.

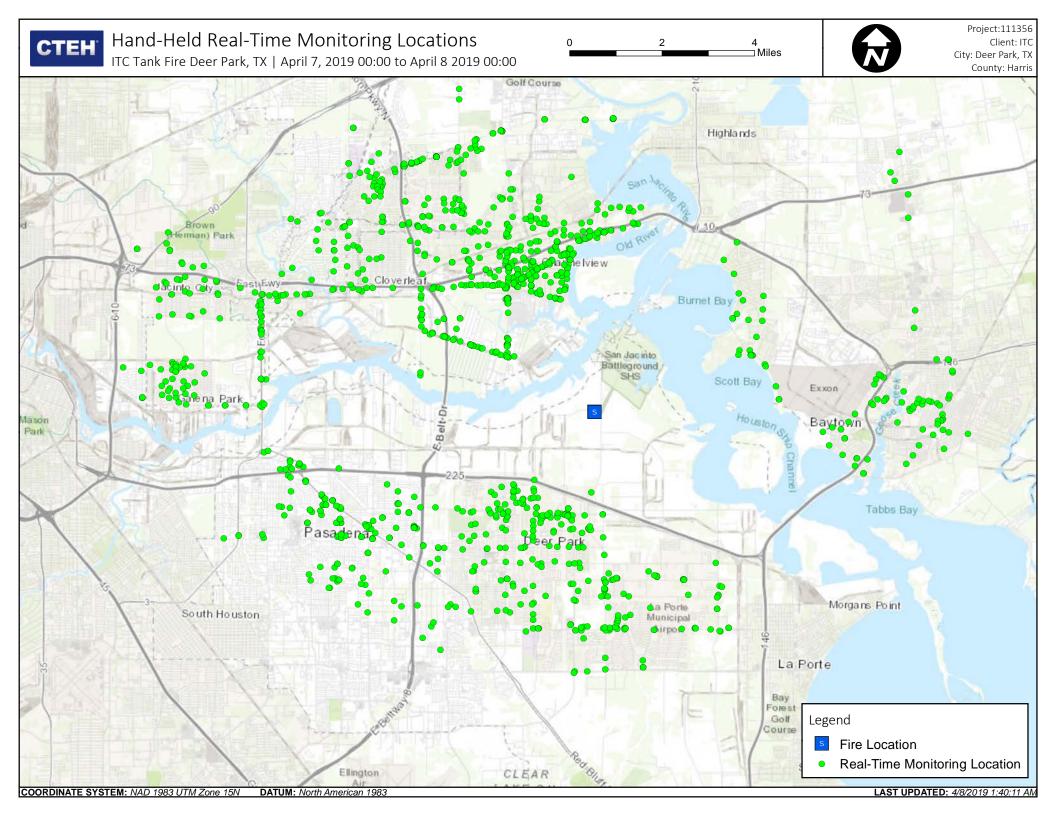
4.0 Weather Conditions

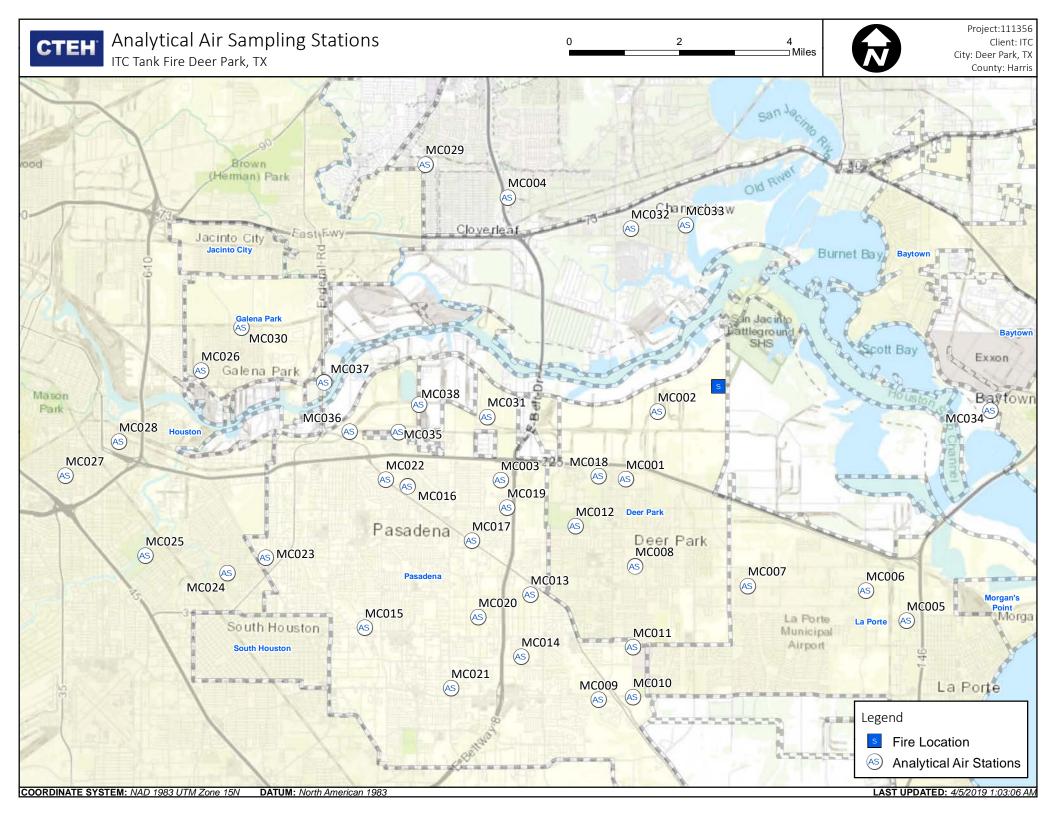
Attachment B contains a wind rose depicting wind speed and direction for this reporting period. Data was acquired from the Texas Commission on Environmental Quality (TCEQ) Lynchburg Ferry meteorological station located on Tidal Road approximately 2 mi NNE of the incident site.

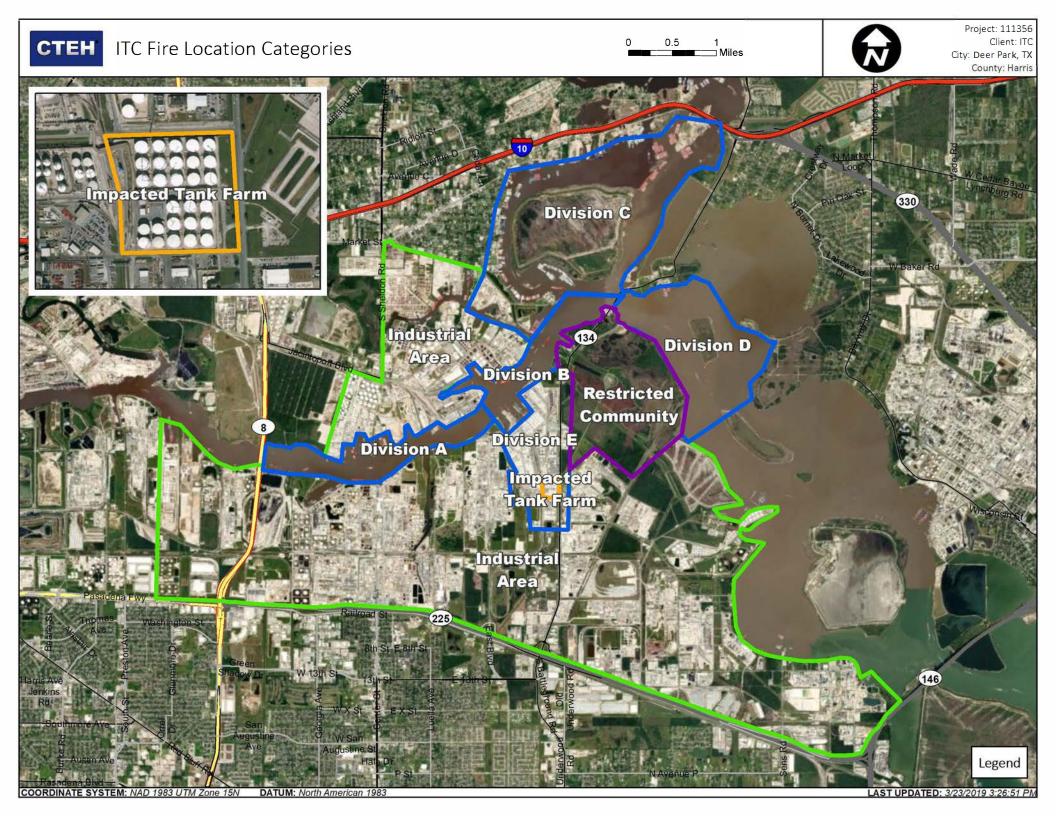


Attachment A

CTEH Community Air Monitoring and Sampling Locations







Attachment B

Meteorological Conditions

